

# **Solid Waste Stabilization and Disposition (RL-0013)/Operate Waste Disposal Facility (RL-0080)**

**D. E. McKenney, Vice President of Solid Waste  
Storage and Disposal/(509) 376-1589**



***Suspect TRU Waste  
Retrieval Operations***



***TRU Waste Certification and  
Disposal at WIPP***



***MLLW Processing  
and Disposal***

## ***Waste Processing and Disposal Operations***

## Overview

This section addresses Project Baseline Summary (PBS) RL-0013, *Solid Waste Stabilization and Disposition*, and RL-0080, *Operate Waste Disposal Facility*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of September 2008.

## Top FY 2008 Accomplishments

- **Transuranic (TRU) Waste:**
  - Completed 54 shipments (550 cubic meters [ $\text{m}^3$ ]) to the Waste Isolation Pilot Plant (WIPP).
  - Certified a total of 2,987  $\text{m}^3$  in FY 2008.
  - A backlog of 339  $\text{m}^3$  of certified waste was available for shipment on September 30, 2008.
  - Initiated 85-gallon drum processing for shipment to the Advanced Mixed Waste Treatment Plant (AMWTP) in Idaho.
- **TRU Waste Retrieval:**
  - A total of 3,064  $\text{m}^3$  of suspect TRU waste was retrieved.
- **Mixed Low-Level Waste (MLLW) Processing:**
  - A total of 1,117  $\text{m}^3$  of M-91-42 waste (contact-handled MLLW) was dispositioned in FY 2008.
  - A total of 137  $\text{m}^3$  of M-91-43 waste (remote-handled and contact-handled MLLW in large containers) was dispositioned in FY 2008.
- **Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestones:**
  - Completed TPA milestone M-91-40E, "Retrieve a cumulative 7,200  $\text{m}^3$  of suspect TRU waste " on 11/27/2007 (due 12/31/2007).
  - Completed TPA milestone M-91-40F, "Retrieve a cumulative 9,700 $\text{m}^3$  of suspect TRU waste " on 9/10/2008 (due 12/31/2008).
  - Completed TPA milestones M-91-15 and M-91-43B, "Complete Facilities/Initiate Treatment of RH/CH MLLW", and "Begin treating RH MLLW and boxes and large containers of CH MLLW", on 6/6/2008 (due 6/30/2008).
  - Completed TPA milestone M-91-42I, "Treat a cumulative 3,000  $\text{m}^3$  of CH TRUM Waste" on 4/1/2008 (due 12/31/2006).
  - Completed TPA milestone M-91-42D, "Treat a cumulative 6,520  $\text{m}^3$  of Waste to LDR Requirements" on 12/20/2007 (due 12/31/2007).
  - Completed TPA milestone M-91-43C, "Treat 300  $\text{m}^3$  Remote-Handled (RH ) MLLW and Large Containers CH MLLW" on 9/2/2008 (due 9/30/2008).
  - Completed TPA milestone M-26-01R, "Submit Annual LDR Report" on 4/8/2008 (due 4/30/2008).

## Notable September Accomplishments

- Completed seven shipments (59  $\text{m}^3$ ) of TRU waste to WIPP in September.
- A total of 490  $\text{m}^3$  of suspect transuranic (TRU) waste was retrieved during September.

## FY 2008 Funds vs. Actuals (\$M)

		September 2008 Actual Funding	FY 2008 Actual Costs	Variance
RL-0013	Solid Waste Stabilization & Disposition	\$248.5	\$233.3	\$15.2
RL-0080	Operate Waste Disposal Facility	\$3.5	\$3.5	\$0.0
<b>TOTAL:</b>		<b>\$252.0</b>	<b>\$236.8</b>	<b>\$15.2</b>

## Schedule/Cost Performance (\$M)

Current Period (Month)		Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY08)
RL-0013	Solid Waste Stabilization & Disposition	\$36.3	\$24.7	\$26.5	-\$11.6	-32.0%	-\$1.8	-7.3%	\$227.4
RL-0080	Operate Waste Disposal	\$0.2	\$0.3	\$0.3	\$0.0	15.8%	\$0.0	-7.7%	\$2.3
<b>TOTAL</b>		<b>\$36.5</b>	<b>\$25.0</b>	<b>\$26.9</b>	<b>-\$11.6</b>	<b>-31.7%</b>	<b>-\$1.9</b>	<b>-7.7%</b>	<b>\$229.7</b>

Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

Cumulative-to-Date (FY 2004-Present)		Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (CTD)
RL-0013	Solid Waste Stabilization & Disposition	\$874.3	\$861.8	\$848.8	-\$12.6	-1.4%	\$13.0	1.5%	\$874.3
RL-0080	Operate Waste Disposal	\$19.3	\$18.7	\$16.6	-\$0.6	-2.9%	\$2.2	11.5%	\$19.3
<b>TOTAL</b>		<b>\$893.6</b>	<b>\$880.5</b>	<b>\$865.3</b>	<b>-\$13.1</b>	<b>-1.5%</b>	<b>\$15.1</b>	<b>1.7%</b>	<b>\$893.6</b>

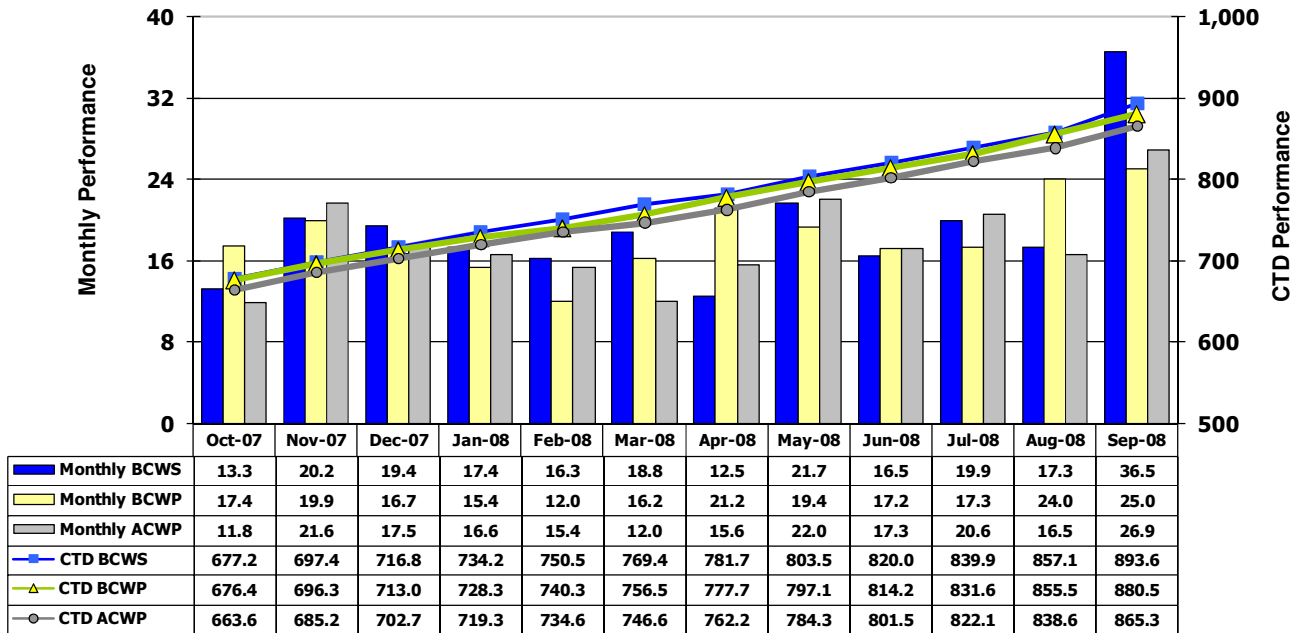
Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

**CTD Schedule Performance (-\$13.1M/-1.5%):** The schedule variance is due to FY 2009 workscope in WIPP Certification, TRU Retrieval, and MLLW Treatment being completed in FY 2008 where no schedule credit was taken.

**CTD Cost Performance (+\$15.1M/+1.7%):** The positive variance is a result of efficiencies in WIPP certification, and at the 200 Area Effluent Treatment Facility (ETF), cost savings from 183-H waste disposal at the Environmental Restoration Disposal Facility (ERDF), as well as favorable passbacks. Efficiencies in operation of the Mixed Waste Disposal Units also resulted in positive variances in PBS RL-0080. These are offset by capital upgrade projects at T Plant and the Central Waste Complex (CWC).

## Schedule/Cost Performance (\$M), continued

### Performance Analysis CTD and Monthly (\$M)



## Milestone Achievement

Tri-Party Agreement milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of Baseline Change Requests approved during the reporting period.

Number	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comment
M-91-42I	Treat 3,000 m <sup>3</sup> of CH TRUM waste	TPA	12/31/06	4/1/08		Complete
M-91-12	Complete thermal treatment of a cumulative 600 m <sup>3</sup> of CH MLLW	TPA	11/16/07	6/14/07		Complete
M-91-42D	Treat a cumulative 6,520 m <sup>3</sup> of Waste to LDR Requirements	TPA	12/31/07	12/20/07		Complete
M-91-40E	Retrieve a cumulative 7,200 m <sup>3</sup>	TPA	12/31/07	11/27/07		Complete
M-91-42J	Treat 4,200 m <sup>3</sup> of CH TRUM waste	TPA	12/31/07		CY 2009	Missed*
M-26-01R	Submit Annual LDR Report	TPA	4/30/08	4/8/08		Complete
M-091-43B	Begin treating RH MLLW & boxes and large containers of CH MLLW	TPA	6/30/08	6/6/08		Complete
M-91-15	Complete Facilities/Initiate Treatment of RH/CH MLLW	TPA	6/30/08	6/6/08		Complete
M-91-45E	Submit Report on Completed and Scheduled work on RH Boxes and LC RH/CH Waste	TPA	9/30/08			TPA Change request approved to combine with M-91-03

\* Milestone M-91-42J renegotiation required. Quantities are unachievable due to combination of waste not being available and necessary throughput exceeding TRU waste processing capacity.